

Water-Data Report 2006

01411427 DENNIS CREEK TRIBUTARY 2 ABOVE JOHNSON POND, AT DENNISVILLE, NJ

DENNIS CREEK BASIN

LOCATION.--Lat 39°12'23", long 74°49'21" referenced to North American Datum of 1983, Dennis Township, Cape May County, NJ, Hydrologic Unit 02040206, 0.3 mi east of Dennisville-Woodbine Road, 0.4 mi upstream of Johnson Pond, and 0.9 mi northwest of Dennisville.

DRAINAGE AREA.--2.77 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002, 2005 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 16.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, and total suspended residue were performed by the NJ Department of Health and Senior Services. Determinations of fecal coliform, E. coli, and enterococcus bacteria were performed by the NJDEP, Bureau of Marine Water Monitoring Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH percent of sat- uration (00301)	water, unfltrd field, std units	Specif. conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 14...	0930	.5	.221	.175	768	5.3	49	4.8	--	16.8	11.9	12	1.52	
Feb 23...	0900	5.6	.124	.095	760	8.5	70	5.2	88	7.9	6.8	13	1.99	
May 31...	1000	1.0	.098	.077	768	6.5	64	5.1	80	23.0	15.3	11	1.38	
Aug 29...	1000	.7	.047	.036	756	6.5	67	5.0	80	23.5	17.0	10	1.00	

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	ANC, wat unf						Residue on		Residue total		Ammonia + org-N, water,		Nitrite + nitrate water
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO ₃ mg/L as (90410)	Chlor- ide pt, lab, mg/L as (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	180degC wat flt mg/L (70300)	sus- pended, mg/L (00530)	at 105 deg. C, mg/L (00623)	Ammonia water, fltrd, mg/L (00608)	Ammonia water, fltrd, mg/L (00631)
Nov 14...	1.87	2.21	6.83	<5	11.6	<.10	9.1	8.14	56	3	.20	.043	.55
Feb 23...	1.96	2.07	7.98	<5	12.4	E.06	7.6	9.79	47	6	.19	.046	.83
May 31...	1.78	2.11	6.87	<5	11.7	<.10	7.8	7.12	53	2	.21	.053	.62
Aug 29...	1.71	2.12	6.36	<5	11.0	<.10	9.0	7.31	47	1	.17	.051	.63

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ortho- phosphate, water, fltrd, mg/L as P (00671)						Inor- ganic carbon, suspnd sediment		Organic carbon, suspnd sediment		BOD, water, unfiltrd 5 day, 20 degC		Arsenic water, fltrd, ug/L (01000)	Arsenic water unfiltrd ug/L (01002)
	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfiltrd mg/L (00665)	Total carbon, suspnd sediment mg/L (00694)	Total carbon, suspnd sediment mg/L (00688)	Organic carbon, water, fltrd, mg/L (00689)	Organic carbon, water, mg/L (00681)	water, unfiltrd mg/L (00310)	water, fltrd, ug/L (01000)	(01002)			
Nov 14...	.06	.75	.81	E.006	.007	.016	.4	<.1	.5	6.1	<1.0	--	--	
Feb 23...	.23	1.0	1.2	E.005	.004	.023	3.7	<.1	3.7	3.0	<1.0	.16	.24	
May 31...	.06	.83	.89	E.010	.006	.011	.5	<.1	.5	2.2	<1.0	--	--	
Aug 29...	.03	.79	.83	.011	E.003	.007	.4	<.1	.4	1.6	<1.0	E.06	.16	

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Barium, water, unfltrd recover -able, ug/L (01007)	Beryll- ium, water, unfltrd recover -able, ug/L (01012)	Boron, water, unfltrd recover -able, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd recover -able, ug/L (01027)	Chrom- ium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen- ium, water, unfltrd recover -able, ug/L (01147)
Nov 14...	--	--	15	--	--	--	--	--	--	--	--	--	--
Feb 23...	139	.23	16	18	.05	.29	.6	162	.63	26.5	E.008	1.73	.16
May 31...	--	--	14	--	--	--	--	--	--	--	--	--	--
Aug 29...	152	.21	13	13	.05	.17	E.4	77	.21	27.4	<.010	2.12	.12

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005
TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than;
E, estimated.]

Date	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
Nov 14...	--	--
Feb 23...	<.16	7
May 31...	--	--
Aug 29...	<.16	6

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF ug/L (38746)	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo- furan, wat flt ug/L (50355)	Aci- fluor- fen, water, fltrd ug/L (49308)	3- Hydroxy carbo- furan, wat flt ug/L (49315)	Aldi- carb sulfone water, fltrd ug/L (49313)	Aldi- carb sulf- oxide, wat flt ug/L (49314)	Aldi- carb, water, fltrd, ug/L (49312)	Atra- zine, water, fltrd, ug/L (39632)
May 31...	1000	<.190	<.04	<.02	<.03	<.08	<.032	<.008	<.008	<.02	<.102	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than.]

Date	Bendio- carb, water, fltrd, ug/L (50299)	Benomyl water, fltrd, ug/L (50300)	Bensul- furone, methyl, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd, 0.7u GF ug/L (38711)	Broma- cyl, water, fltrd, 0.7u GF ug/L (04029)	Brom- oxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf- feine, water, fltrd, 0.7u GF ug/L (50305)	Car- baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo- furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor- aben- methyl, water, fltrd, 0.7u GF ug/L (61188)	Chlori- muron, water, fltrd, 0.7u GF ug/L (50306)	Chloro- di- amino- s-tri- azine, water, fltrd, 0.7u GF ug/L (04039)	Clopyr- alid, water, fltrd, 0.7u GF ug/L (49305)
May 31...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than.]

Date	Dacthal mono- acid, water, fltrd, 0.7u GF ug/L (04031)	Dicamba water, fltrd 0.7u GF ug/L (49304)	Di- chlor- prop, water, fltrd 0.7u GF ug/L (38442)	Dinoseb water, fltrd 0.7u GF ug/L (49302)	Diphen- amid, water, fltrd 0.7u GF ug/L (49301)	Diuron, water, fltrd 0.7u GF ug/L (04033)	Fenuron water, fltrd 0.7u GF ug/L (49300)	Flumet- sulam, water, fltrd 0.7u GF ug/L (49297)	Fluo- meturon water, fltrd 0.7u GF ug/L (61694)	Imaza- quin, water, fltrd 0.7u GF ug/L (38811)	Imaze- thapyr, water, fltrd, 0.7u GF ug/L (50356)	Imida- cloprid, water, fltrd, 0.7u GF ug/L (50407)	Imida- cloprid, water, fltrd, 0.7u GF ug/L (61695)
May 31...	<.01	<.03	<.04	<.03	<.04	<.01	<.01	<.10	<.04	<.02	<.04	<.04	<.020

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than.]

Date	Linuron water, filtrd 0.7u GF ug/L (38478)	MCPA, water, filtrd 0.7u GF ug/L (38482)	MCPB, water, filtrd 0.7u GF ug/L (38487)	Meta- laxyl, water, filtrd, 0.7u GF ug/L (50359)	Methio- carb, water, filtrd 0.7u GF ug/L (38501)	Meth- omyl, water, filtrd 0.7u GF ug/L (49296)	Metsul- furon, water, filtrd, 0.7u GF ug/L (61697)	Chloro- phenyl) methyl- urea, water, filtrd 0.7u GF ug/L (61692)	Neburon water, filtrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, filtrd 0.7u GF ug/L (50364)	Norflur azon, water, filtrd 0.7u GF ug/L (49293)	Ory- zalin, water, filtrd 0.7u GF ug/L (49292)	Oxamyl, water, filtrd 0.7u GF ug/L (38866)
									N-(4-				
May 31...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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Date	Pic- loram, water, filtrd 0.7u GF ug/L (49291)	Propham water, filtrd 0.7u GF ug/L (49236)	Propi- conazole, water, filtrd, 0.7u GF ug/L (50471)	Pro- poxur, water, filtrd 0.7u GF ug/L (38538)	Siduron water, filtrd, 0.7u GF ug/L (38548)	Sulfo- ruron, water, filtrd, 0.7u GF ug/L (50337)	Tebu- thiuron water, filtrd 0.7u GF ug/L (82670)	Terba- cil, water, filtrd 0.7u GF ug/L (04032)	Tri- clopyr, water, filtrd 0.7u GF ug/L (49235)
					N-(4-				
May 31...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temper- ature, water, deg C (00010)	Enter- occi, m-E MF,	E coli, m-TEC MF,	Fecal coli- form, ECbroth
			100 mL (31649)	100 mL (31633)	100 mL (31615)
Jul					
20...	0815	19.0	18	40	40
27...	0845	19.0	3	8	<20
Aug					
03...	0730	20.0	25	13	<20
10...	0805	19.0	18	18	33
17...	0800	19.2	673	800	628